## What is claimed is:

1	1. An ac	idic beverage composition, comprising;
2	(A)	a hydrated protein material having a combination of an inositol-6-
3	phosphate co	ntent, an inositol-5-phosphate content, an inositol-4-phosphate content
4	and an inositol-3-phosphate content of less than 8.0 µmol/g, wherein the protein	
5	material, prior to hydration, is prepared by a process comprising:	
6		(1) preparing an aqueous extract from a protein containing plant
7		material,
8		(2) adjusting the pH of the extract to a value of from about 4 to
9		about 5 to precipitate the protein material,
10	•	(3) separating the precipitated protein material and forming a
11		suspension of the precipitated protein material in water,
12		(4) adjusting the pH of the suspension to a value of from about 3.5
13		to about 6 to form a partially solubilized protein material in water,
14		(5) adding a phytase to the partially solubilized protein material in
15		water to form a phytase treated protein material, and
16		(6) drying the protein material; and
17	(B)	a hydrated protein stabilizing agent and
18	(C)	at least one flavoring material comprising a fruit juice, a vegetable
19	juice, citric acid, malic acid, tartaric acid, lactic acid, ascorbic acid, glucono delta	
20	lactone or phosphoric acid,	
.21	wherein the a	cidic beverage composition has a pH of from 3.0 to 4.5.

- 1 2. The composition of claim 1 wherein the hydrated protein material comprises a soybean protein material, wheat gluten or zein.
- 1 3. The composition of claim 2 wherein the hydrated soybean protein material comprises soy flour, soy concentrate or soy protein isolate.

- 1 4. The composition of claim 2 wherein the hydrated soybean protein material
- 2 comprises soy protein isolate.
- 1 5. The composition of claim 1 where phytase is present in (A)(5) at from about
- 2 500 to about 2200 units of phytase per gram of protein.
- 1 6. The composition of claim 1 where phytase is present in (A)(5) at from about
- 2 600 to about 2100 units of phytase per gram of protein.
- 1 7. The composition of claim 1 where phytase is present in (A)(5) at from about
- 2 720 to about 1400 units of phytase per gram of protein.
- 1 8. The composition of claim 1 wherein the composition contains the hydrated
- 2 protein material in an amount of from 0. 1 percent to 10 percent by weight.
- 1 9. The composition of claim 1 wherein the stabilizing agent (B) is present in a
- 2 weight ratio of (A):(B) of from 1:0.01-0.2.
- 1 10. The composition of claim 1 where the combination of inositol-6-phosphate.
- 2 inositol-5-phosphate, inositol-4-phosphate and inositol-3-phosphate is less than 6.0
- 3  $\mu$ mol/g.
- 1 11. The composition of claim 1 where the combination of inositol-6-phosphate,
- 2 inositol-5-phosphate, inositol-4-phosphate and inositol-3-phosphate is less than 3.0
- 3  $\mu$ mol/g.
- 1 12. The composition of claim 1 wherein the protein stabilizing agent comprises a
- 2 polysaccharide hydrolysate.
- 1 13. The composition of claim 12 wherein the polysaccharide hydrolysate
- 2 comprises dextrin, agar, carrageenan, tamarind seed polysaccharides, angelica gum,

- 3 karaya gum, xanthan gum, sodium alginate, tragacanth gum, guar gum, locust bean
- 4 gum, pullulan, jellan gum, gum arabic, and propylene glycol alginate ester.
- 1 14. The composition of claim 12 wherein the protein stabilizing agent is jellan
- 2 gum.
- 1 15. The composition of claim 1 wherein the pH of the acid beverage composition
- 2 is from 3.2-4.0
- 1 16. The composition of claim 1 wherein the pH of the acid beverage composition
- 2 is from 3.6-3.8.
- 1 17. An acidic beverage composition, comprising;
- 2 (A) a hydrated protein material having a combination of an inositol-6-
- 3 phosphate content, an inositol-5-phosphate content, an inositol-4-phosphate content
- 4 and an inositol-3-phosphate content of less than 8.0 μmol/g, wherein the protein
- 5 material, prior to hydration, is prepared by a process comprising:
- 6 (1) preparing an aqueous extract from a protein containing plant
- 7 material,
- 8 (2) adding a phytase to the aqueous extract to form a phytase
- 9 extract,
- 10 (3) adjusting the pH of the phytase extract to a value of from about
- 4 to about 5.5 to precipitate the protein material,
- 12 (4) separating the precipitated protein material and forming a
- suspension of the precipitated protein material in water,
- 14 (5) adjusting the pH of the suspension to a value of from about 6.7
- to about 7.4 to form a solubilized protein material in water, and
- 16 (6) drying the protein material; and
- 17 (B) a hydrated protein stabilizing agent and

- 18 (C) at least one acid comprising a fruit juice, a vegetable juice, citric acid,
- 19 malic acid, tartaric acid, lactic acid, ascorbic acid, glucono delta lactone or
- 20 phosphoric acid,
- wherein the acidic beverage composition has a pH of from 3.0 to 4.5.
- 1 18. The composition of claim 17 wherein the hydrated protein material comprises
- 2 a soybean protein material, wheat gluten or zein.
- 1 19. The composition of claim 18 wherein the hydrated soybean protein material
- 2 comprises soy flour, soy concentrate or soy protein isolate.
- 1 20. The composition of claim 18 wherein the hydrated soybean protein material
- 2 comprises soy protein isolate.
- 1 21. The composition of claim 17 where phytase is present in (A)(2) at from about
- 2 500 to about 2200 units of phytase per gram of protein.
- 1 22. The composition of claim 17 where phytase is present in (A)(2) at from about
- 2 600 to about 2100 units of phytase per gram of protein.
- 1 23. The composition of claim 17 where phytase is present in (A)(2) at from about
- 2 720 to about 1400 units of phytase per gram of protein.
- 1 24. The composition of claim 17 wherein the composition contains the hydrated
- 2 protein material in an amount of from 0.1 percent to 10 percent by weight.
- 1 25. The composition of claim 17 wherein the stabilizing agent (B) is present in a
- 2 weight ratio of (A):(B) of from 1:0.01-0.2.

- 1 26. The composition of claim 17 where the combination of inositol-6-phosphate,
- 2 inositol-5-phosphate inositol-4-phosphate and inositol-3-phosphate is less than 6.0
- 3  $\mu$ mol/g.
- 1 27. The composition of claim 17 where the combination of inositol-6-phosphate,
- 2 inositol-5-phosphate inositol-4-phosphate and inositol-3-phosphate is less than 3.0
- 3 μmol/g.
- 1 28. The composition of claim 17 wherein the protein stabilizing agent comprises a
- 2 polysaccharide hydrolysate
- 1 29. The composition of claim 28 wherein the polysaccharide hydrolysate
- 2 comprises dextrin, agar, carrageenan, tamarind seed polysaccharides, angelica gum,
- 3 karaya gum, xanthan gum, sodium alginate, tragacanth gum, guar gum, locust bean
- 4 gum, pullulan, jellan gum, gum arabic, and propylene glycol alginate ester.
- 1 30. The composition of claim 28 wherein the protein stabilizing agent is jellan
- 2 gum.
- 1 31. The composition of claim 17 wherein the pH of the acid beverage composition
- 2 is from 3.2-4.0
- 1 32. The composition of claim 17 wherein the pH of the acid beverage composition
- 2 is from 3.6-3.8.
- 1 33. An acidic beverage composition, comprising;
- 2 (A) a hydrated protein material having a combination of an inositol-6-
- 3 phosphate content, an inositol-5-phosphate content, an inositol-4-phosphate content
- 4 and an inositol-3-phosphate content of less than 8.0 μmol/g, wherein the protein
- 5 material, prior to hydration, is prepared by a process comprising:

- 6 (1) preparing an aqueous extract from a protein containing plant 7 material, 8 (2) adjusting the pH of the extract to a value of from about 4 to 9 about 5 to precipitate the protein material, 10 (3) separating the precipitated protein material and forming a suspension of the precipitated protein material in water, 11 12 (4) adjusting the pH of the suspension to a value of from about 6.7 13 to about 7.4 to form a solubilized protein material in water, 14 (5) adding a phytase to the solubilized protein material in water to form a phytase treated solubilized protein material, and 15 drying the protein material; and 16 (6) 17 (B) a hydrated protein stabilizing agent and at least one acid comprising a fruit juice, a vegetable juice, citric acid, 18 (C) malic acid, tartaric acid, lactic acid, ascorbic acid, glucono delta lactone or 19 20 phosphoric acid,
- 1 34. The composition of claim 33 wherein the hydrated protein material comprises

wherein the acidic beverage composition has a pH of from 3.0 to 4.5.

- 2 a soybean protein material, wheat gluten or zein.
- 1 35. The composition of claim 34 wherein the hydrated soybean protein material
- 2 comprises soy flour, soy concentrate or soy protein isolate.
- 1 36. The composition of claim 34 wherein the hydrated soybean protein material
- 2 comprises soy protein isolate.

21

- 1 37. The composition of claim 33 where phytase is present in (A)(5) at from about
- 2 500 to about 2200 units of phytase per gram of protein.
- 1 38. The composition of claim 33 where phytase is present in (A)(5) at from about
- 2 600 to about 2100 units of phytase per gram of protein.

- 1 39. The composition of claim 33 where phytase is present in (A)(5) at from about
- 2 720 to about 1400 units of phytase per gram of protein.
- 1 40. The composition of claim 33 wherein the composition contains the hydrated
- 2 protein material in an amount of from 0.1 percent to 10 percent by weight.
- 1 41. The composition of claim 33 wherein the stabilizing agent (B) is present in a
- 2 weight ratio of (A):(B) of from 1:0.01-0.2.
- 1 42. The composition of claim 33 where the combination of inositol-6-phosphate,
- 2 inositol-5-phosphate, inositol-4-phosphate and inositol-3-phosphate is less than 6.0
- 3  $\mu$ mol/g.
- 1 43. The composition of claim 33 where the combination of inositol-6-phosphate,
- 2 inositol-5-phosphate, inositol-4-phosphate and inositol-3-phosphate is less than 3.0
- 3  $\mu$ mol/g.
- 1 44. The composition of claim 33 wherein the protein stabilizing agent comprises a
- 2 polysaccharide hydrolysate.
- 1 45. The composition of claim 44 wherein the polysaccharide hydrolysate
- 2 comprises dextrin, agar, carrageenan, tamarind seed polysaccharides, angelica gum,
- 3 karaya gum, xanthan gum, sodium alginate, tragacanth gum, guar gum, locust bean
- 4 gum, pullulan, jellan gum, gum arabic, and propylene glycol alginate ester.
- 1 46. The composition of claim 44 wherein the protein stabilizing agent is jellan
- 2 gum.
- 1 47. The composition of claim 33 wherein the pH of the acid beverage composition
- 2 is from 3.2-4.0

- 1 48. The composition of claim 33 wherein the pH of the acid beverage composition
- 2 is from 3.6-3.8.